



Sierpinski's Nest

by Arya Akhavan (March 2013)

Angles for R.I. = 1.540

55 + 12 girdles = 67 facets

3-fold, mirror-image symmetry

96 index

$L/W = 1.003$ $T/W = 0.469$ $U/W = 0.422$

$P/W = 0.454$ $C/W = 0.231$

$Vol./W^3 = 0.239$

PAVILION

P1	45.78°	02-30-34-62-66-94	Cut to centerpoint.
P2	43.00°	10-22-42-54-74-86	Meet at culet.
G1	90.00°	02-30-34-62-66-94	Set stone size.
G2	90.00°	10-22-42-54-74-86	Level girdle.
P3	44.83°	01-31-33-63-65-95	Meet P1, G1
P4	43.00°	05-27-37-59-69-91	Meet P1, P2, G1, G2; culet

CROWN

C1	67.03°	02-30-34-62-66-94	Set girdle width.
C2	47.98°	10-22-42-54-74-86	Level girdle.
C3	45.00°	05-27-37-59-69-91	Meet G1, G2, C1, C2
C4	37.96°	16-48-80	Meet G2, C2
C5	21.82°	16-48-80	Meet C2, C3, C4
C6	21.14°	15-17-47-49-79-81	Meet C2, C3, C4, C5
T	0.00°	Table	Meet C3, C6; C5, C6

This design is a modification of "Sierpinski's Puzzle", but it has its own unique flavor. Thanks to the new pavilion, there's a very Inception-esque set of nested Sierpinski triangles in the light reflection. This design should be fairly fast ot cut, and should perform awesomely! The sweet spot for RIs is corundum (1.76), and boy does it look good, but the design works from quartz to rutile (RI = 1.54 - 2.62) with no changes.

C:\Users\ARYADE~1\Pictures\Gems\DESIGN~1\WORKSI~1\Fixed\SIERPI~1.GEM